

PCT

RAW SEQUENCE LISTING

DATE: 04/25/2001

PATENT APPLICATION: US/09/554,996

TIME: 09:00:25

Input Set : A:\702sl.txt

Output Set: N:\CRF3\04252001\I554996.raw

ENTERED

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4 <110> APPLICANT: University of Utah Research Foundation
5      Keating, Mark T.
6      Li, Dean Y.
8 <120> TITLE OF INVENTION: ELASTIN-BASED COMPOSITIONS
11 <130> FILE REFERENCE: 22458-702
C--> 13 <140> CURRENT APPLICATION NUMBER: US/09/554,996
C--> 14 <141> CURRENT FILING DATE: 2000-05-24
16 <150> PRIOR APPLICATION NUMBER: PCT/US00/02526
17 <151> PRIOR FILING DATE: 2000-02-28
19 <150> PRIOR APPLICATION NUMBER: US 09/258,217
20 <151> PRIOR FILING DATE: 1999-02-26
22 <160> NUMBER OF SEQ ID NOS: 8
24 <170> SOFTWARE: FastSEQ for Windows Version 4.0
26 <210> SEQ ID NO: 1
27 <211> LENGTH: 6
28 <212> TYPE: PRT
29 <213> ORGANISM: Homo sapiens
31 <400> SEQUENCE: 1
32 Val Gly Val Ala Pro Gly
33 1          5
35 <210> SEQ ID NO: 2
36 <211> LENGTH: 42
37 <212> TYPE: PRT
38 <213> ORGANISM: Artificial Sequence
40 <220> FEATURE:
41 <223> OTHER INFORMATION: Synthetic
43 <400> SEQUENCE: 2
44 Val Gly Val Ala Pro Gly Val Gly Val Ala Pro Gly Val Gly Val Ala
45 1          5          10          15
46 Pro Gly Val Gly Leu Ala Pro Gly Val Gly Val Ala Pro Gly Val Gly
47          20          25          30
48 Val Ala Pro Gly Val Gly Val Ala Pro Gly
49          35          40
51 <210> SEQ ID NO: 3
52 <211> LENGTH: 712
53 <212> TYPE: PRT
54 <213> ORGANISM: Homo sapiens
56 <400> SEQUENCE: 3
57 Met Ala Gly Leu Thr Ala Ala Ala Pro Arg Pro Gly Val Leu Leu Leu
58 1          5          10          15
59 Leu Leu Ser Ile Leu His Pro Ser Arg Pro Gly Gly Val Pro Gly Ala
60          20          25          30
61 Ile Pro Gly Gly Val Pro Gly Gly Val Phe Tyr Pro Gly Ala Gly Leu
62          35          40          45
63 Gly Ala Leu Gly Gly Gly Ala Leu Gly Pro Gly Gly Lys Pro Leu Lys
64          50          55          60
65 Pro Val Pro Gly Gly Leu Ala Gly Ala Gly Leu Gly Ala Gly Leu Gly

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66 65      70      75      80
67 Ala Phe Pro Ala Val Thr Phe Pro Gly Ala Leu Val Pro Gly Gly Val
68      85      90      95
69 Ala Asp Ala Ala Ala Tyr Lys Ala Ala Lys Ala Gly Ala Gly Leu
70      100     105     110
71 Gly Gly Val Pro Gly Val Gly Gly Leu Gly Val Ser Ala Gly Ala Val
72      115     120     125
73 Val Pro Gln Pro Gly Ala Gly Val Lys Pro Gly Lys Val Pro Gly Val
74      130     135     140
75 Gly Leu Pro Gly Val Tyr Pro Gly Gly Val Leu Pro Gly Ala Arg Phe
76 145     150     155     160
77 Pro Gly Val Gly Val Leu Pro Gly Val Pro Thr Gly Ala Gly Val Lys
78      165     170     175
79 Pro Lys Ala Pro Gly Val Gly Gly Ala Phe Ala Gly Ile Pro Gly Val
80      180     185     190
81 Gly Pro Phe Gly Gly Pro Gln Pro Gly Val Pro Leu Gly Tyr Pro Ile
82      195     200     205
83 Lys Ala Pro Lys Leu Pro Gly Gly Tyr Gly Leu Pro Tyr Thr Thr Gly
84      210     215     220
85 Lys Leu Pro Tyr Gly Tyr Gly Pro Gly Gly Val Ala Gly Ala Ala Gly
86 225     230     235     240
87 Lys Ala Gly Tyr Pro Thr Gly Thr Gly Val Gly Pro Gln Ala Ala Ala
88      245     250     255
89 Ala Ala Ala Ala Lys Ala Ala Ala Lys Phe Gly Ala Gly Ala Ala Gly
90      260     265     270
91 Val Leu Pro Gly Val Gly Gly Ala Gly Val Pro Gly Val Pro Gly Ala
92      275     280     285
93 Ile Pro Gly Ile Gly Gly Ile Ala Gly Val Gly Thr Pro Ala Ala Ala
94      290     295     300
95 Ala Ala Ala Ala Ala Ala Lys Ala Ala Lys Tyr Gly Ala Ala Ala
96 305     310     315     320
97 Gly Leu Val Pro Gly Gly Pro Gly Phe Gly Pro Gly Val Val Gly Val
98      325     330     335
99 Pro Gly Ala Gly Val Pro Gly Val Gly Val Pro Gly Ala Gly Ile Pro
100     340     345     350
101 Val Val Pro Gly Ala Gly Ile Pro Gly Ala Ala Val Pro Gly Val Val
102     355     360     365
103 Ser Pro Glu Ala Ala Ala Lys Ala Ala Ala Lys Ala Ala Lys Tyr Gly
104     370     375     380
105 Ala Arg Pro Gly Val Gly Val Gly Gly Ile Pro Thr Tyr Gly Val Gly
106 385     390     395     400
107 Ala Gly Gly Phe Pro Gly Phe Gly Val Gly Val Gly Gly Ile Pro Gly
108     405     410     415
109 Val Ala Gly Val Pro Gly Val Gly Gly Val Pro Gly Val Gly Gly Val
110     420     425     430
111 Pro Gly Val Gly Ile Ser Pro Glu Ala Gln Ala Ala Ala Ala Lys
112     435     440     445
113 Ala Ala Lys Tyr Gly Val Gly Thr Pro Ala Ala Ala Ala Lys Ala
114     450     455     460

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115 Ala Ala Lys Ala Ala Gln Phe Ala Leu Leu Asn Leu Ala Gly Leu Val
116 465 470 475 480
117 Pro Gly Val Gly Val Ala Pro Gly Val Gly Val Ala Pro Gly Val Gly
118 485 490 495
119 Val Ala Pro Gly Val Gly Leu Ala Pro Gly Val Gly Val Ala Pro Gly
120 500 505 510
121 Val Gly Val Ala Pro Gly Val Gly Val Ala Pro Gly Ile Gly Pro Gly
122 515 520 525
123 Gly Val Ala Ala Ala Ala Lys Ser Ala Ala Lys Val Ala Ala Lys Ala
124 530 535 540
125 Gln Leu Arg Ala Ala Ala Gly Leu Gly Ala Gly Ile Pro Gly Leu Gly
126 545 550 555 560
127 Val Gly Val Gly Val Pro Gly Leu Gly Val Gly Ala Gly Val Pro Gly
128 565 570 575
129 Leu Gly Val Gly Ala Gly Val Pro Gly Phe Gly Ala Val Pro Gly Ala
130 580 585 590
131 Leu Ala Ala Ala Lys Ala Ala Lys Tyr Gly Ala Ala Val Pro Gly Val
132 595 600 605
133 Leu Gly Gly Leu Gly Ala Leu Gly Gly Val Gly Ile Pro Gly Gly Val
134 610 615 620
135 Val Gly Ala Gly Pro Ala Ala Ala Ala Ala Ala Lys Ala Ala Ala
136 625 630 635 640
137 Lys Ala Ala Gln Phe Gly Leu Val Gly Ala Ala Gly Leu Gly Gly Leu
138 645 650 655
139 Gly Val Gly Gly Leu Gly Val Pro Gly Val Gly Gly Leu Gly Gly Ile
140 660 665 670
141 Pro Pro Ala Ala Ala Ala Lys Ala Ala Lys Tyr Gly Val Ala Ala Arg
142 675 680 685
143 Pro Gly Phe Gly Leu Ser Pro Ile Phe Pro Gly Gly Ala Cys Leu Gly
144 690 695 700
145 Lys Ala Cys Gly Arg Lys Arg Lys
146 705 710
148 <210> SEQ ID NO: 4
149 <211> LENGTH: 6
150 <212> TYPE: PRT
151 <213> ORGANISM: Artificial Sequence
153 <220> FEATURE:
154 <223> OTHER INFORMATION: Sequence encoded by forward primer
156 <400> SEQUENCE: 4
157 Met Ala Gly Leu Thr Ala
158 1 5
160 <210> SEQ ID NO: 5
161 <211> LENGTH: 30
162 <212> TYPE: DNA
163 <213> ORGANISM: Artificial Sequence
165 <220> FEATURE:
166 <223> OTHER INFORMATION: Forward primer
168 <400> SEQUENCE: 5
169 ctgctgctgc atatggcggg tctgacggcg

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171 <210> SEQ ID NO: 6
172 <211> LENGTH: 16
173 <212> TYPE: PRT
174 <213> ORGANISM: Artificial Sequence
176 <220> FEATURE:
177 <223> OTHER INFORMATION: Sequence encoded by complement to reverse primer
179 <400> SEQUENCE: 6
180 Ala Cys Gly Arg Lys Arg Lys Gln Lys Leu Ile Ser Glu Glu Asp Leu
181 1 5 10 15
183 <210> SEQ ID NO: 7
184 <211> LENGTH: 66
185 <212> TYPE: DNA
186 <213> ORGANISM: Artificial Sequence
188 <220> FEATURE:
189 <223> OTHER INFORMATION: Reverse primer
191 <400> SEQUENCE: 7
192 cgaacaccgg ccttctcttt tgtcttcgac tagtcgctcc tcctggacac tactttctaga 60
193 cgacga 66
195 <210> SEQ ID NO: 8
196 <211> LENGTH: 730
197 <212> TYPE: PRT
198 <213> ORGANISM: Artificial Sequence
200 <220> FEATURE:
201 <223> OTHER INFORMATION: Human elastin-c-myc fusion
203 <400> SEQUENCE: 8
204 Met Arg Gly Ser His His His His His Ala Gly Leu Thr Ala Ala
205 1 5 10 15
206 Ala Pro Arg Pro Gly Val Leu Leu Leu Leu Ser Ile Leu His Pro
207 20 25 30
208 Ser Arg Pro Gly Gly Val Pro Gly Ala Ile Pro Gly Gly Val Pro Gly
209 35 40 45
210 Gly Val Phe Tyr Pro Gly Ala Gly Leu Gly Ala Leu Gly Gly Gly Ala
211 50 55 60
212 Leu Gly Pro Gly Gly Lys Pro Leu Lys Pro Val Pro Gly Gly Leu Ala
213 65 70 75 80
214 Gly Ala Gly Leu Gly Ala Gly Leu Gly Ala Phe Pro Ala Val Thr Phe
215 85 90 95
216 Pro Gly Ala Leu Val Pro Gly Gly Val Ala Asp Ala Ala Ala Tyr
217 100 105 110
218 Lys Ala Ala Lys Ala Gly Ala Gly Leu Gly Gly Val Pro Gly Val Gly
219 115 120 125
220 Gly Leu Gly Val Ser Ala Gly Ala Val Val Pro Gln Pro Gly Ala Gly
221 130 135 140
222 Val Lys Pro Gly Lys Val Pro Gly Val Gly Leu Pro Gly Val Tyr Pro
223 145 150 155 160
224 Gly Gly Val Leu Pro Gly Ala Arg Phe Pro Gly Val Gly Val Leu Pro
225 165 170 175
226 Gly Val Pro Thr Gly Ala Gly Val Lys Pro Lys Ala Pro Gly Val Gly
227 180 185 190

```

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```

228 Gly Ala Phe Ala Gly Ile Pro Gly Val Gly Pro Phe Gly Gly Pro Gln
229      195      200      205
230 Pro Gly Val Pro Leu Gly Tyr Pro Ile Lys Ala Pro Lys Leu Pro Gly
231      210      215      220
232 Gly Tyr Gly Leu Pro Tyr Thr Thr Gly Lys Leu Pro Tyr Gly Tyr Gly
233 225      230      235      240
234 Pro Gly Gly Val Ala Gly Ala Ala Gly Lys Ala Gly Tyr Pro Thr Gly
235      245      250      255
236 Thr Gly Val Gly Pro Gln Ala Ala Ala Ala Ala Ala Lys Ala Ala
237      260      265      270
238 Ala Lys Phe Gly Ala Gly Ala Ala Gly Val Leu Pro Gly Val Gly Gly
239      275      280      285
240 Ala Gly Val Pro Gly Val Pro Gly Ala Ile Pro Gly Ile Gly Gly Ile
241      290      295      300
242 Ala Gly Val Gly Thr Pro Ala Ala Ala Ala Ala Ala Ala Ala Ala
243 305      310      315      320
244 Lys Ala Ala Lys Tyr Gly Ala Ala Ala Gly Leu Val Pro Gly Gly Pro
245      325      330      335
246 Gly Phe Gly Pro Gly Val Val Gly Val Pro Gly Ala Gly Val Pro Gly
247      340      345      350
248 Val Gly Val Pro Gly Ala Gly Ile Pro Val Val Pro Gly Ala Gly Ile
249      355      360      365
250 Pro Gly Ala Ala Val Pro Gly Val Val Ser Pro Glu Ala Ala Ala Lys
251      370      375      380
252 Ala Ala Ala Lys Ala Ala Lys Tyr Gly Ala Arg Pro Gly Val Gly Val
253 385      390      395      400
254 Gly Gly Ile Pro Thr Tyr Gly Val Gly Ala Gly Gly Phe Pro Gly Phe
255      405      410      415
256 Gly Val Gly Val Gly Gly Ile Pro Gly Val Ala Gly Val Pro Gly Val
257      420      425      430
258 Gly Gly Val Pro Gly Val Gly Gly Val Pro Gly Val Gly Ile Ser Pro
259      435      440      445
260 Glu Ala Gln Ala Ala Ala Ala Ala Lys Ala Ala Lys Tyr Gly Val Gly
261      450      455      460
262 Thr Pro Ala Ala Ala Ala Ala Lys Ala Ala Ala Lys Ala Ala Gln Phe
263 465      470      475      480
264 Ala Leu Leu Asn Leu Ala Gly Leu Val Pro Gly Val Gly Val Ala Pro
265      485      490      495
266 Gly Val Gly Val Ala Pro Gly Val Gly Val Ala Pro Gly Val Gly Leu
267      500      505      510
268 Ala Pro Gly Val Gly Val Ala Pro Gly Val Gly Val Ala Pro Gly Val
269      515      520      525
270 Gly Val Ala Pro Gly Ile Gly Pro Gly Gly Val Ala Ala Ala Lys
271      530      535      540
272 Ser Ala Ala Lys Val Ala Ala Lys Ala Gln Leu Arg Ala Ala Ala Gly
273 545      550      555      560
274 Leu Gly Ala Gly Ile Pro Gly Leu Gly Val Gly Val Gly Val Pro Gly
275      565      570      575
276 Leu Gly Val Gly Ala Gly Val Pro Gly Leu Gly Val Gly Ala Gly Val

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VERIFICATION SUMMARY

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L:13 M:270 C: Current Application Number differs, Replaced Current Application Number
L:14 M:271 C: Current Filing Date differs, Replaced Current Filing Date